**QA Assignment ANOVA**

1. **Airline.SAV**

This is data collected from major airlines throughout the world. It contains information on crash rates and general geographic regions for each airline.

Is there a difference among the geographic regions in crash rates per million flight miles? Comment on what you find and offer some explanations for your conclusions about airlines from different geographic regions.

1. **Nielsen.SAV**
   1. Does the mean Nielsen rating vary by television network?
   2. Does the mean number of viewers vary by television network?
   3. By Day of the Week?
   4. Does the mean number of households vary by network?
2. **AIDS.SAV**
   1. Did the cumulative cases of AIDS through 2006 vary significantly by WHO region?
   2. Did the number of deaths in 2005 vary significantly by WHO region?
3. **BP.SAV**

Recall that this dataset contains blood pressure and other vital signs during various physical and mental stressors.

1. Is heart rate while immersing a hand in ice water (hrcp) related to a person’s sex, parental hypertension (PH), or some combination of these factors?
2. Is heart rate while performing mental arithmetic (hrma) related to these same factors (sex, parental hypertension, or their combination)?
3. **Haircut.SAV**

This dataset comes from the **Student** data, which was collected on the first day of class. Students were asked the last price they paid for a professional haircut. In addition, they were asked to specify the region where they got that haircut, according to the following categories: rural, suburban, or urban.

Is the price of a haircut related to a person’s sex, the region where they got the haircut, or some combination of these factors?

1. **Student.SAV**

Recall that these data are collected from first day business students and contain demographic and personal information.

* 1. Propose a theory to explain why both gender and major field might affect one’s GPA. Using this set of data, test your theory.
  2. Does gender and one’s rating of personal driving ability affect the number of accidents one has been in during the past year? Comment on noteworthy features of this analysis.